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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,017	11/20/2003	Timothy Clarence Willging	SJO920030048US1	5665
46917 7590 06/27/2007 KONRAD RAYNES & VICTOR, LLP. ATTN: IBM37			EXAMINER	
			WALSH, JOHN B	
315 SOUTH BEVERLY DRIVE, SUITE 210 BEVERLY HILLS, CA 90212		210	ART UNIT	PAPER NUMBER
DE VERET III	ES, Cityosis		2151	
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/721,017	WILLGING ET AL.				
		Examiner	Art Unit				
		John B. Walsh	2151				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence address				
	ORTENED STATUTORY PERIOD FOR REPLY	/ IS SET TO EXPIRE 3	MONTH(S) OR THIRTY (30) DAYS				
WHIC - Exter after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMU 36(a). In no event, however, may vill apply and will expire SIX (6) N , cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status			<u>.</u>				
1)	Responsive to communication(s) filed on	<u>_</u> .					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C	.D. 11, 453 O.G. 213.				
Dispositi	ion of Claims						
4)🛛	Claim(s) <u>1-30</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
-	Claim(s) <u>1-30</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	ion Papers	•					
9)	The specification is objected to by the Examine	r					
10)⊠	The drawing(s) filed on 20 November 2003 is/a	re: a)⊠ accepted or b)	objected to by the Examiner.				
	Applicant may not request that any objection to the						
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	·					
Priority u	ınder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C	. § 119(a)-(d) or (f).				
,	☐ All b)☐ Some * c)☐ None of:	•					
	1. Certified copies of the priority documents	s have been received.	•				
	2. Certified copies of the priority documents	s have been received ir	Application No				
	3. Copies of the certified copies of the prior	•	en received in this National Stage				
	application from the International Bureau	, , , , , , , , , , , , , , , , , , , ,					
* 8	See the attached detailed Office action for a list	of the certified copies n	ot received.				
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		•					
Attachmen		<b></b>					
	e of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)		w Summary (PTO-413) lo(s)/Mail Date				
3) 🔯 Infor	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date 11/20/03.	5)  Notice ( 6)  Other: _	of Informal Patent Application				

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#### **DETAILED ACTION**

## Claim Objections

1. Claim 12 is objected to because of the following informalities: Claim 12, line 1 recites "system of claim 1". It appears it should be "system of claim 11". Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "the monitor program". There is insufficient antecedent basis for this limitation in the claim.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person should be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

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subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-30 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Publication No. 20030204597 A1 to Arakawa et al.

As concerns claims 1, 11, and 21, providing information on a network storage system, comprising: receiving information from at least one host system (figure 2; 300) identifying storage units (figure 2; 100) the host systems access through at least one identified storage system; probing the at least one storage system to determine storage units available through the storage system and an identifier (0048-0050) of the storage system; and processing the information received from the host systems on storage units the host systems access and the information probed from the at least one storage system on the storage units available through the storage system to determine an association (figure 5; 1011, 1012) of host systems to storage units for the at least one storage system.

As concerns claims 2, 12 and 22, wherein the information from the host systems is gathered by an agent program (340) executing in each host systems that queries the host system to determine the storage units the host system is capable of accessing and the at least one storage system through which the storage units are accessed, and wherein the agent program transmits the information on the accessible storage units and the at least one determined storage system to a monitor program (310,330).

As concerns claims 3, 13 and 23, wherein the monitor program further performs the operations of probing the at least one storage system and processing the information received from the agents executing in the host systems and the at least one storage system (0133).

As concerns claims 4, 14 and 24, wherein the agent program determines the accessible

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storage units and the at least one storage system by issuing at least one inquiry command that is a member of set of an industry standard storage interface (0089).

As concerns claims 5, 15 and 25, wherein the industry standard storage interface (0089) comprises the Small Computer System Interface (SCSI) and wherein the inquiry command comprises a SCSI inquiry command and wherein the storage units comprise Logical Unit Numbers (LUNs) (figures 7-8).

As concerns claims 6, 16 and 26, wherein the agent program determines the accessible storage units and the at least one storage system by: issuing a first inquiry command to determine a vendor and model number (0115) of the storage system including the accessible at least one storage unit; determining whether the determined vendor and model number are for a recognizable storage system (0115); and issuing a second inquiry command to determine the at least one accessible storage unit and the identifier of the storage system having the accessible storage unit if the determined vendor and model number are for one recognizable storage system (0115-0117).

As concerns claims 7, 17 and 27, further comprising: maintaining in a data repository: (i) host system information (0128) including the information received from the host systems identifying the host system and the storage units accessible from that host system and (ii) storage system information (0128) probed from the at least one storage system identifying the storage system and the storage units available at through that storage system.

As concerns claims 8, 18 and 28, further comprising: maintaining host/storage unit assignment information (0127;0117) indicating for one storage system the storage units available through that storage system and the host systems that access the available storage units, wherein

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the host/storage unit assignment information is generated by processing the host system and storage system information in the data repository.

As concerns claims 9, 19 and 29, wherein probing the at least one storage system comprises using an industry standard storage management interface to access information from the storage system (0089;0042).

As concerns claims 10, 20 and 30, wherein the information received from the host systems indicates an operating system (320) used by the host system, further comprising: generating information on the association of the host systems to storage units for at least one storage system (0128,0133); and generating information on the operating system used by each host system associated with the storage units (0133).

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Walsh whose telephone number is 571-272-7063. The examiner can normally be reached on Monday-Thursday from 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on 571-272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from

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either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

John B. Walsh Primary Examiner Art Unit 2151